

Date: Tue, 10 Aug 93 04:30:11 PDT
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V93 #8
To: Ham-Ant

Ham-Ant Digest Tue, 10 Aug 93 Volume 93 : Issue 8

Today's Topics:

 Antenna Resistance/Reactance (2 msgs)
 Making Trees Taller
 Wavelength formula

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

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(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 9 Aug 93 10:50:20 EDT
From: psinntp!pbs.org!pbs.org!jernandez@uunet.uu.net
Subject: Antenna Resistance/Reactance
To: ham-ant@ucsd.edu

 To find the impedance of a thin linear antenna (dipole) use Section 4
of the "Antenna Engineering Handbook" by Jasik. In Section 4-4 thru 4-10 there
is a formular and the rules for appling the formular to calculate the R and X.

John
KA2YAP

Date: 9 Aug 93 18:02:25 GMT
From: usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!ksampath@RUTGERS.EDU
Subject: Antenna Resistance/Reactance
To: ham-ant@ucsd.edu

In article <1993Aug9.105020.1@pbs.org> jernandez@pbs.org writes:

>
> To find the impedance of a thin linear antenna (dipole) use Section 4
> of the "Antenna Engineering Handbook" by Jasik. In Section 4-4 thru 4-10 there
> is a formular and the rules for applying the formular to calculate the R and X.
>
> John
> KA2YAP

or you can always use the classic work by r.w.p. king:

TK7872A6K55 Page 1
King, Ronold Wyeth Percival, 1905-
The theory of linear antennas, with charts and tables for practical
applications. Cambridge, Harvard University Press, 1956. 944 p. illus. 27
cm.
Bibliography: p. 901-902.
SUB: 1. Antennas (Electronics)
AE : 1. Linear antennas.
LC CARD #: 56-5354 TITLE #: 524152 OCLC #: 01528895 820925 &7z820925

73 es cul
krishna

--
dr krishna s. sampath...senior research associate...kss@lenz.eng.ohio-state.edu
ohio state u, electroscience lab.....(614) 292-7981 (w).....(614) 292-7297 (f)
1320 kinnear rd, columbus, oh 43212..06/93 ee phd looking for emi/emc/comm. job

Date: 9 Aug 93 16:39:05 GMT
From: ogicse!news.tek.com!tekgen!brucec@network.ucsd.edu
Subject: Making Trees Taller
To: ham-ant@ucsd.edu

Well, I got a lot of email on this question about
mounting masts in trees. Unfortunately, only a few
responses dealt with the major issue. Most of the
respones dealt with the "old brain teaser" about
a man putting a nail in a tree at 6 ft. The tree
grows 1 ft/yr. In ten years how high is the nail?

The REAL answer is that ten years later, the NAIL
cannot be found !! The tree will grow outward and
completely absorb the nail. Perhaps a metal detector

will tell you that it is still at 6 ft. because trees
grow at the top.

Thanks for the email!

Bruce Cheney NI7M

Date: 9 Aug 93 14:36:22 EDT
From: psinntp!arrl.org@uunet.uu.net
Subject: Wavelength formula
To: ham-ant@ucsd.edu

In alt.radio.scanner, garyl@moe.corollary.COM (Gary Lorman) writes:
>In article <1978@arrl.org> jkearman@arrl.org (Jim Kearman) writes:
>>
>>Wavelength = 984/Freq (MHz)
>>
>
>I seem to remember a formula for wavelength being:
>Speed of Light (Meters per Second) = Wavelength (Meters) x Frequency (Hz)
>of
>Wavelength = speed of light / Frequecny (L = CF)
>So, for example, 3Mhz = 100Meters, 30Mhz=10Meters, 300Mhz=1Meter.
>
>Is this wrong?

No. My formula is for length in FEET, not meters.

--Jim

>--
>--garyl-----
> "Any shark that gets to be 11 or 12 feet long with
> 300 big teeth can be considered dangerous" - 'Shark Bowl '92'

Yeah, but who's gonna sit there and count the teeth? :+}

>-----
>

Date: 9 Aug 1993 14:52:37 GMT
From: noc.near.net!sunfish.hi.com!brainiac.hi.com!user@uunet.uu.net
To: ham-ant@ucsd.edu

References <1993Aug6.104055.27032@nntpd.lkg.dec.com>,
<SBROWN.93Aug6061330@charon.dseg.ti.com>, <1993Aug8.155320.3000@ke4zv.uucp>rl
Subject : Re: Good newbie book?

In article <1993Aug8.155320.3000@ke4zv.uucp>, gary@ke4zv.uucp (Gary
Coffman) wrote:

> Anyone care to offer a pointer to a text that *does* offer an intuitive
> grasp of *why* antennas work? Or care to take a brief semi-technical
> stab at it here? Or do you claim that you can't do that other than
> mathematically? (Note I don't mean no math, just verbalize what the
> math *means* in physical terms.)

I recall that QST had such an article within the past three years. Written
by a physicist, I believe. Anyone happen to be close to an index of QST
articles?

Steve Byan
Hitachi Computer Products (America), Inc.
1601 Trapelo Road
Waltham, MA 02154

internet: steve@hicomb.hi.com

phone: (617) 890-0444

FAX: (617) 890-4998

End of Ham-Ant Digest V93 #8
